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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/019,283	01/02/2002	Tadahiko Furuta	217522US0PCT	1457	
22850	7590 05/27/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER		
1940 DUKE : ALEXANDR	STREET LIA, VA 22314		SHEEHAN, JOHN P		
			ART UNIT	PAPER NUMBER	
			1742	8	
			DATE MAILED: 05/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 1! A! A! -		Ammliannt/a)				
		Application No.		Applicant(s)				
		10/019,283		FURUTA ET AL.				
Office Action Summary		Examin r		Art Unit				
		John P. Sheehan		1742				
Th MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply								
THE MAI - Extension: after SIX (- If the peric - If NO peric - Failure to - Any reply	TENED STATUTORY PERIOD FOR REI LING DATE OF THIS COMMUNICATIOI s of time may be available under the provisions of 37 CFR 6) MONTHS from the mailing date of this communication. of for reply specified above is less than thirty (30) days, a od for reply is specified above, the maximum statutory peri reply within the set or extended period for reply will, by sta received by the Office later than three months after the ma- tent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, howev reply within the statutory minin od will apply and will expire Si tute, cause the application to l	rer, may a reply be time num of thirty (30) days IX (6) MONTHS from t become ABANDONED	ely filed will be considered timely. he mailing date of this come (35 U.S.C. § 133).	nunication.			
1)□ R	esponsive to communication(s) filed on _	·						
2a)☐ Th	nis action is FINAL . 2b)	This action is non-fin	al.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
· _		tion						
•	Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
•	s)							
· <u> </u>	Claim(s) is/are rejected. Claim(s) is/are objected to.							
·	tim(s) <u>1-14</u> are subject to restriction and/o	or election requireme	ent.					
Application Papers								
9) <u></u> The	specification is objected to by the Exami	iner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)∐ A	.ll b)☐ Some * c)☐ None of:							
1	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)		•						
2) Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) In Disclosure Statement(s) (PTO-1449) Paper No(s	5) 🔲 🛚	-	(PTO-413) Paper No(s). atent Application (PTO-				

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1 to 3, drawn to a titanium member comprising 40% by weight or more Ti, a Group IVa element and/or a Group Va element other than Ti wherein the sum of the Ti and the Group IVa and/or Group Va element is at least 90% by weight having the recited grain and texture characteristics.

Group II, claim(s) 4 to 10, 13 and 14, drawn to a titanium alloy member comprising titanium and an alloy element in which a compositional mean value of substitutional elements is 2.43<Md<2.49 with regard to the energy level "Md" of the d-electron orbit and a compositional mean value of the substitutional elements is 2.86<Bo<2.90 with regard to the bond order "Bo", the "Md" and "Bo" and the process of making such a member.

Group III, claim(s) 11 and 12, drawn to a titanium alloy member exhibiting a dislocation density of 10¹¹/cm² or less when cold working is carried out by 50% or more.

2. The inventions listed as Groups I, II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Group I is directed to a titanium alloy member which has the special technical feature of comprising 40% by weight or more Ti, a Group IVa element and/or a Group Va element other than Ti wherein the sum of the Ti and the Group IVa and/or Group Va element is at least 90% by weight having the recited grain and texture characteristics which is not shared by any of the remaining groups.

Group II is directed to a titanium alloy and process of making the claimed alloy member and which has the special technical feature of comprising titanium and an alloy element in which a compositional mean value of substitutional elements is 2.43<Md<2.49 with regard to the energy level "Md" of the d-electron orbit and a compositional mean value of the substitutional elements is 2.86<Bo<2.90 with regard to

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the bond order "Bo", the "Md" and "Bo" which is not shared by any of the remaining groups.

Group III is drawn to a titanium alloy member which has the special technical feature of exhibiting a dislocation density of 10¹¹/cm² or less when cold working is carried out by 50% or more which is not shared by any of the remaining groups.

3. A telephone call was made to Mr. Surinder Sachar on May 21, 2003 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Sheehan whose telephone number is (703) 308-3861. The examiner can normally be reached on T-F (6:30-5:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (703) 308-1146. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

John P. Sheehan Primary Examiner Art Unit 1742

jps May 23, 2003